Joint Geospatial Enterprise Services – Science and Technology Program (J-GES S&T)

Spiral One and Spiral Two

Spiral 1

- Initial technology focus areas:

    – soldier as sensor using mobile GIS technology
    – discovery services using metadata portal concepts
    – high-resolution sensor exploitation
    – geo-database synchronization
    – spatially and temporally explicit link analysis
    – terrain reasoning services
    – 3-D terrain visualization

- Leveraged commercial and government off-the-shelf technology

- Using five operational vignettes, demonstrated the need of net-centric geospatial services for current and future battle command systems to many high-level military decision-makers

Spiral 2

- Built upon lessons learned and building blocks in Spiral One

- Includes:

    - integration of the Striker Brigade database stored in ArcSDE and populated through an ArcGIS Server application
    - enhanced data discovery, custom-developed synchronization software, interest management and alerts services
    - hosting a Defense Geospatial Intelligence Network (DGINet) site serving TEC generated Urban Tactical Planner (UTP), Water Resources Data Base (WRDB), and terrain reasoning services
    - various live feeds into the user-defined operational picture
    - enhanced data entry
    - data synchronization and interest management on handhelds
    - further prototyping of Force XXI Battle Command, Brigade-and-Below-like capabilities